

Technical Data Sheet



Icorene N2808

High Density Polyethylene
LyondellBasell Industries
Custom Powders

Product Description

ICORENE® N2808 is a gas phase homopolymer HDPE and offers high stiffness, high temperature resistance (antioxidant stabilizers), low water vapour transmission and relatively high grease resistance.

This grade has a low gel level. It's typically used for masterbatch applications related to food packaging, release paper and photographic paper.

General

Material Status	• Commercial: Active		
Availability	• Europe		
Features	• Good Processability • Good Stability	• High Heat Resistance • High Stiffness	• Low Gel
Uses	• Automotive Interior Trim • Carpet Backing	• Food Packaging • Masterbatch	• Release Paper
Forms	• Powder		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.963 g/cm ³	0.963 g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Films	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			ISO 527-3
MD : Yield	3770 psi	26.0 MPa	
TD : Yield	3480 psi	24.0 MPa	
MD : Break	3190 psi	22.0 MPa	
TD : Break	2610 psi	18.0 MPa	
Tensile Elongation			ISO 527-3
MD : Break	700 %	700 %	
TD : Break	800 %	800 %	
Flexural Modulus			ISO 527-3
MD	84100 psi	580 MPa	
TD	84100 psi	580 MPa	
Oxygen Permeability (73°F (23°C))	0.25 cm ³ ·mil/ 100in ² /atm/24 hr	0.10 cm ³ ·mm/m ² /atm/2 4 hr	Internal Method
Water Vapor Transmission ¹	0.26 g/100 in ² /24 hr	4.0 g/m ² /24 hr	Internal Method
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Peak Melting Temperature	273 °F	134 °C	DIN 53765

Notes

¹ 38°C at 100% RH

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

© LyondellBasell Industries Holdings, B.V. 2024

Page: 1 of 2
LyondellBasell

www.lyondellbasell.com
Publish Date: 2024-03-14

Technical Data Sheet**Icorene N2808**

High Density Polyethylene
LyondellBasell Industries
Custom Powders

Disclaimer

Information in this document is accurate to the best of our knowledge at the date of publication. The document is designed to provide users general information for safe handling, use, processing, storage, transportation, disposal and release and does not constitute any warranty or quality specification, either express or implied, including any warranty of merchantability or fitness for any particular purpose. Users shall determine whether the product is suitable for their use and can be used safely and legally.

In addition to any prohibitions of use specifically noted in this document, LyondellBasell may further prohibit or restrict the sale of its products into certain applications. For further information, please contact a LyondellBasell representative.

Trademarks

The Trademark referenced within the product name is owned or used by the LyondellBasell family of companies.